

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S2	381	mouse same wheel same pointer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/30 13:37
S3	60	S2 and highlight	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/30 12:44
S4	39	S3 and menu	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/30 12:44
S7	103	(thumb adj wheel) same menu	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 08:52
S8	1	"6710771".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/30 13:54
S9	7	"826533".ap.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/30 13:55
S11	2	"20040053605".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/01 09:46
S12	2	"20040075695".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/01 09:49

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S13	18	(mouse adj wheel) same menu	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 09:01
S14	274	mouse same navigat\$3 same menu same item	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 09:44
S15	9	S14 same highlight	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 09:04
S16	228	S14 same select\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 09:34
S17	100	navigat\$3 same mouse same keyboard same menu same item	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 09:47
S18	26	S17 and (up same down same keys same arrow)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 09:38
S19	9	actuator same navigat\$3 same menu same item	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 09:45
S20	0	navigat\$3 same actuator same keyboard same menu same item	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 10:14

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S21	170	(scroll adj wheel) same menu	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 10:14
S22	78	S21 same mouse	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 11:21
S24	1094	715/810.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 11:23
S25	696	S24 and (acutator mouse (mouse adj wheel))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 11:24
S26	688	S25 and (select\$3 highlight\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 11:24
S27	230	S26 and (menu adj item)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 11:25
S50	1094	715/810.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 15:27
S51	326	S50 and mouse same menu	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 15:28

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S52	46	715/828.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 15:28
S53	30	715/829.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 15:28
S54	61	715/830.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 15:28



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1 [Guiding and navigating: Walk 'n scroll: a comparison of software-based navigation](#)



[techniques for different levels of mobility](#)

Bonnie MacKay, David Dearman, Kori Inkpen, Carolyn Watters

September 2005 **Proceedings of the 7th international conference on Human computer interaction with mobile devices & services MobileHCI '05**

Publisher: ACM Press

Full text available: [pdf\(1.18 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#).

In this paper, we present a field study comparing software-based navigation techniques (scrollbars, tap-and-drag, and touch-n-go) on mobile devices. In particular, we were interested in exploring the efficiency and user preference of these navigation techniques for different levels of mobility (sitting, walking, and standing) in a naturalistic environment. Results show that while there was no significant difference in performance between tap-and-drag and touch-n-go, both techniques significantly ...

Keywords: PDA, evaluation, field study, handheld, input, mobile device, navigating, scrolling

2 [User Interfaces for Applications on a Wrist Watch](#)



M. T. Raghunath, Chandra Narayanaswami

January 2002 **Personal and Ubiquitous Computing**, Volume 6 Issue 1

Publisher: Springer-Verlag

Full text available: [pdf\(356.91 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Advances in technology have made it possible to package a reasonably powerful processor and memory subsystem coupled with an ultra high-resolution display and wireless communication into a wrist watch. This introduces a set of challenges in the nature of input devices, navigation, applications, and other areas. This paper describes a wearable computing platform in a wrist watch form-factor we have developed. We built two versions: one with a low resolution liquid crystal display; and another wit ...

3 [Interaction techniques: haptic and gestural: A role for haptics in mobile interaction: initial design using a handheld tactile display prototype](#)



Joseph Luk, Jerome Pasquero, Shannon Little, Karon MacLean, Vincent Levesque, Vincent Hayward

April 2006 **Proceedings of the SIGCHI conference on Human Factors in computing systems CHI '06**



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1 [Basic level interaction techniques: Modeling and improving selection in cascading](#)



[pull-down menus using Fitts' law, the steering law and force fields](#)

David Ahlström

April 2005 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press

Full text available: [pdf\(412.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Selecting a menu item in a cascading pull-down menu is a frequent but time consuming and complex GUI task. This paper describes an approach aimed to support the user during selection in cascading pull-down menus when using an indirect pointing device. By enhancing such a cascading pull-down menu with "force fields", the cursor is attracted toward a certain direction, e.g. toward the right hand side within a menu item, which opens up a sub-menu, making the cursor steering task easier and faster. ...

Keywords: Fitts' law, cascading pull-down menus, force fields, input devices, menu navigation, selection, steering law

2 [Work-in-progress: Usability tool for analysis of web designs using mouse tracks](#)



Ernesto Arroyo, Ted Selker, Willy Wei

April 2006 **CHI '06 extended abstracts on Human factors in computing systems CHI '06**

Publisher: ACM Press

Full text available: [pdf\(399.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents MouseTrack as a web logging system that tracks mouse movements on websites. The system includes a visualization tool that displays the mouse cursor path followed by website visitors. It helps web site administrators run usability tests and analyze the collected data. Practitioners can track any existing webpage by simply entering its URL. This paper includes a design case that shows the tool's value for teaching interaction design concepts.

Keywords: evaluation, mouse tracking, usability

3 [Context and interaction in zoomable user interfaces](#)



Stuart Pook, Eric Lecolinet, Guy Vaysseix, Emmanuel Barillot

Publisher: ACM Press

Full text available:  pdf(1.04 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mobile interaction can potentially be enhanced with well-designed haptic control and display. However, advances have been limited by a vicious cycle whereby inadequate haptic technology obstructs inception of vitalizing applications. We present the first stages of a systematic design effort to break that cycle, beginning with specific usage scenarios and a new handheld display platform based on lateral skin stretch. Results of a perceptual device characterization inform mappings between device c ...

Keywords: design process, display, handheld interaction, haptic, lateral skin stretch, mobile, multimodal, tactile


4 Courses: Spatial augmented reality



Oliver Bimber, Ramesh Raskar

July 2006 **Material presented at the ACM SIGGRAPH 2006 conference SIGGRAPH '06**

Publisher: ACM Press

Full text available:  pdf(22.57 MB)

Additional Information: [full citation](#), [abstract](#)

A survey of the latest techniques for augmented reality, which go beyond conventional head-mounted displays. The tutorial introduces prototypes, explains rendering and calibration algorithms, discusses case studies, and presents practical experience. Attendees learn about new applications enabled by current augmented-reality techniques that combine the real and virtual worlds in art, science, education, and industry.

5 The design and evaluation of an auditory-enhanced scrollbar



Stephen A. Brewster, Peter C. Wright, Alistair D. N. Edwards

April 1994 **Proceedings of the SIGCHI conference on Human factors in computing systems: celebrating interdependence**

Publisher: ACM Press

Full text available:  pdf(909.23 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: auditory interfaces, auditory-enhanced widgets, earcons, multi-modal interfaces, sonification

6 Using GOMS for user interface design and evaluation: which technique?



Bonnie E. John, David E. Kieras

December 1996 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 3
Issue 4

Publisher: ACM Press

Full text available:  pdf(272.60 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Since the seminal book, The Psychology of Human-Computer Interaction, the GOMS model has been one of the few widely known theoretical concepts in human-computer interaction. This concept has spawned much research to verify and extend the original work and has been used in real-world design and evaluation situations. This article synthesizes the previous work on GOMS to provide an integrated view of GOMS models and how they can be used in design. We briefly describe the major ...

Keywords: GOMS, cognitive modeling, usability engineering



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1 [Two-handed input using a PDA and a mouse](#)



Brad A. Myers, Kin Pou Lie, Bo-Chieh Yang

April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press

Full text available: pdf(1.13 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We performed several experiments using a Personal Digital Assistant (PDA) as an input device in the non-dominant hand along with a mouse in the dominant hand. A PDA is a small hand-held palm-size computer like a 3Com Palm Pilot or a Windows CE device. These are becoming widely available and are easily connected to a PC. Results of our experiments indicate that people can accurately and quickly select among a small numbers of buttons on the PDA using the left hand without looking, and that, as ...

Keywords: Palm Pilot, Windows CE, hand-held computers, pebbles, personal digital assistant (PDAs), smart environments, two-handed input, ubiquitous computing

2 [A five-key mouse with built-in dialog control](#)



Kunio Ohno, Ken-ichi Fukaya, Jurg Nievergelt

July 1985 **ACM SIGCHI Bulletin**, Volume 17 Issue 1

Publisher: ACM Press

Full text available: pdf(437.65 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper proposes a standard man-machine dialog environment as realized by a mouse with built-in universal commands, and describes a manufactured prototype mouse. This mouse with five keys is designed to exploit the agility of the human hand to the utmost. In order to use this mouse for daily control in interactive systems, we introduce the concept of universal commands that facilitate visualization of the system state for data and commands, as well as the dialog history leading to the present ...

3 [DMSEC session: User re-authentication via mouse movements](#)



Maja Pusara, Carla E. Brodley

October 2004 **Proceedings of the 2004 ACM workshop on Visualization and data mining for computer security**

Publisher: ACM Press

Full text available: pdf(179.25 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)